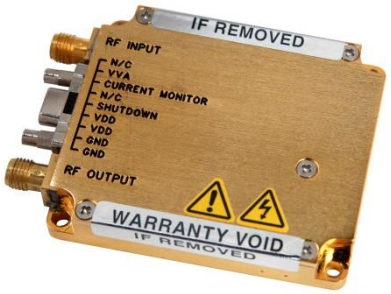
HD31234
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	225 - 2600 MHz	
Power Output Psat	7 Watt Min / 10 Watt Typ	10W min @ Pin=3dBm
Power Gain	39 dB Nom	
Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	30dBm/Tone, Δ = 1MHz
Harmonics 2nd	-13 dBc Max	At rated Pout
Non Harmonics Spurious	>60 dBc	
Operating Voltage	26 - 30 VDC	
Current Consumption	1.4 Amp Typ / 1.8 Amp Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-30 to +60 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	2.34 x 1.96 x 0.425 inch/59.4 X 50 X 10.8 mm	Without Connectors
Weight	200 gr.	Typical Weight
RF Connectors In/Out	SMA female	
DC Power / Interface Connector	9 Pin Micro-D Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

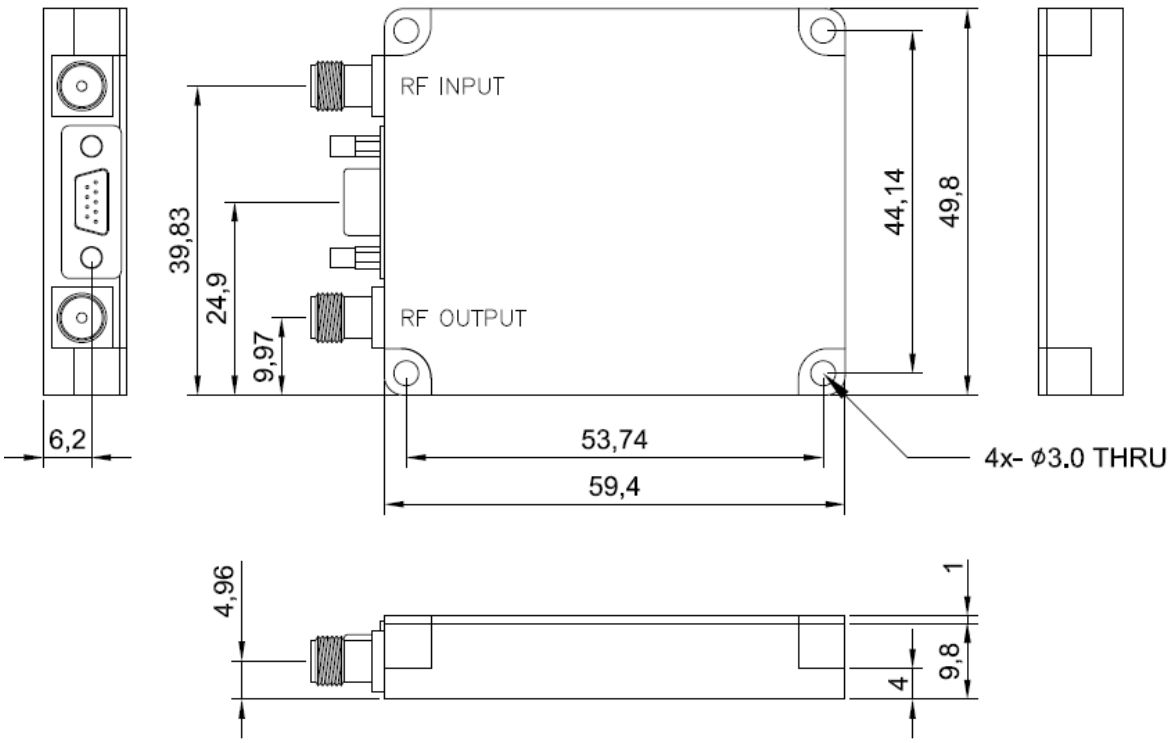
Pin	Function	Description
1	FWD	N/A
2	VVA	Analog
3	CURRENT SENSOR	I_D@100mV/100mA Typ
4	TEMP SENSOR	N/A
5	SHUDOWN	TTL - Enable “Low”
6, 7	VDD	28VDC
8, 9	GND	Ground

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Communications Corp.

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OUTLINE DRAWING



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